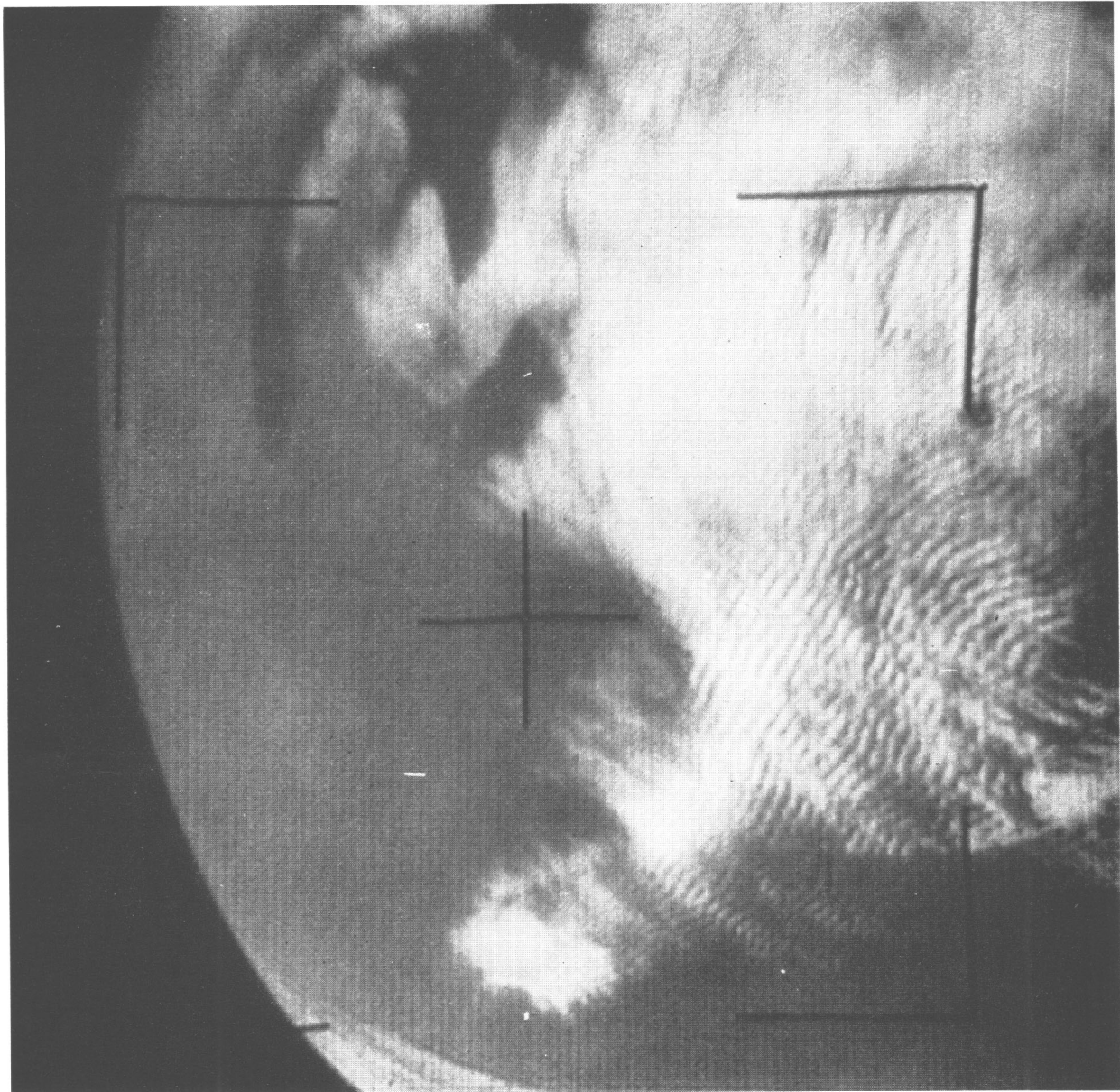


PICTURE OF THE MONTH



Since the launching of TIROS I, occasional satellite pictures have revealed the existence of wave clouds, associated with the air flow across mountain ranges. This particular example is a TIROS VII photograph (pass 4363, camera 1, frame 10) showing such clouds over and to the east of the Appalachians. The photograph was taken on April 9, 1964, at 1309 GMT (0809 EST) and was received at Wallops Island, Va., via direct readout. North is roughly toward the top of the picture, with portions of the Great Lakes appearing in the upper left. The intersection point of the center-cross fiducial mark lies slightly to the east of Columbus, Ohio.

At the time of this photograph, a recent surge of cold air had invaded the eastern United States. The surface map for 1200 GMT, April 9, showed a high pressure center (1030 mb.) located over Arkansas, with west-to-northwest winds, near freezing temperatures, and scattered snow flurries over the Appalachian region. Strong westerly winds existed aloft.

The spacing of the individual cloud bands in the picture is approximately 10 statute miles. Surface stations in the area were reporting stratocumulus and altocumulus type clouds, and many aircraft reports of moderate to severe turbulence were received from in-cloud and below-cloud levels during the day.